R E P O R T R E S U M E S

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1967-68 CATALOG OF TEACHING MATERIALS.

ILLINOIS UNIV., URBANA, COLL. OF AGRICULTURE

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MATERIALS LISTED INCLUDE (1) MAINTENANCE KITS, ELECTRICAL CODES, AND SAFETY CHARTS FOR AGRICULTURAL MECHANICS, (2) PROGRAMED INSTRUCTION MATERIALS FOR 33 UNITS IN AGRICULTURE, (3) SLIDEFILMS FOR ANIMAL SCIENCE, DAIRY SCIENCE, FARM MANAGEMENT AND ECONOMICS, AND AGRICULTURAL MECHANICS, (4) AGRONOMY FACT SHEETS, LAND-USE SELECTION CARDS, "FH" KITS, AND OTHER CROP, SOIL, AND FERTILIZER MATERIALS, (5) ANALYSIS CHARTS, TABULATION SHEETS, REPORT FORMS, AND COURSE MATERIALS FOR FARM MANAGEMENT, (6) SUBJECT MATTER UNITS FOR ANIMAL AND DAIRY SCIENCE, AGRICULTURAL MECHANICS, AND CROP AND SOIL SCIENCE, AND (7) MISCELLANEOUS MATERIALS SUCH AS TAPE RECORDINGS ON CAREERS IN AGRICULTURE AND APPROVED CROP PRACTICES. PRICES ARE LISTED FOR ALL MATERIALS. (EL)

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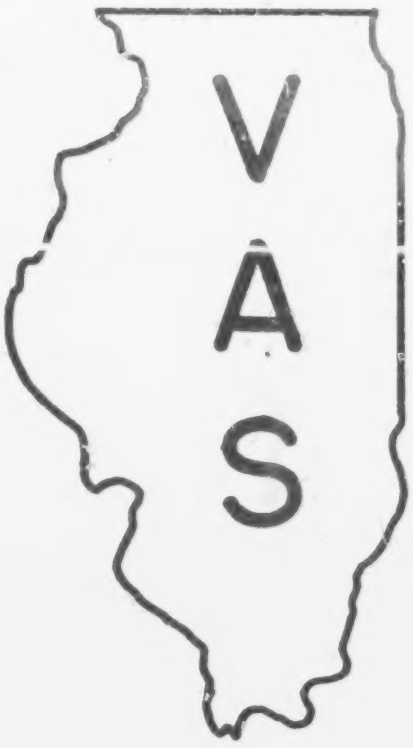
1967-68



Catalog of TEACHING MATERIALS

Vocational Agriculture Service
434 Mumford Hall
Urbana, Illinois 61801

VT 025 175

University of Illinois

College of Agriculture

Vocational Agriculture Service is a division of the College of Agriculture at the University of Illinois. Its primary function is to produce and distribute subject-matter teaching materials for use in agriculture classes at the secondary and post-secondary level.

This catalog lists and describes briefly the various types of teaching materials that are available. Special order forms are also available for each category of materials.

Materials will be sent postpaid at the prices quoted if payment accompanies your order. However, orders are accepted without advance payment from any recognized school or other educational institution. Postage charges will be added to orders that are billed for payment.

Orders totalling less than $10.00 are normally placed on open account and will be billed when open account charges reach $10.00 or more. All accounts will be billed at the end of the current school year, regardless of size.

Orders totalling more than $10.00 will be billed immediately. A receipted statement will be sent with cash orders of 25¢ or more.

Telephone orders will be accepted. Our telephone number is Area 217, 333-3870.

Our goal is to fill all orders within 24 hours after they are received. We will notify you when orders have been shipped. Please let us know promptly if your order does not arrive in good condition or if you have complaints of any kind.

VOCATIONAL AGRICULTURE SERVICE
434 Mumford Hall
Urbana, Illinois
61801

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ANIMAL AND DAIRY SCIENCE MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, $8\frac{1}{2}$" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 1001. Units that have been revised have a letter following the number, as 1001a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

Unit Number	Title	Price per Copy
1001a	Caring for the Sheep Breeding Flock, 8 pages	$ .10
1002a	Artificial Insemination of Livestock, 8 p.	.10
1003	Selecting and Purchasing Sheep, 8 p.	.10
1004	Diseases of Sheep, 12 p.	.15
1005	Internal Parasites of Sheep, 8 p.	.10
1006	External Parasites of Sheep, 8 p.	.10
1007	Capons and Caponizing, 8p.	.10
1008a	Making the Butterfat Test, 8 p.	.10
1009	Improving Animals Through Breeding, 16 p.	.20
1010	Producing Beef Cattle from a Beef Breeding Herd, 8 p.	.10
1011	The Ewe and Her Lamb, 8 p.	.10
1012	Buying and Feeding Beef Cattle, 12 p.	.15
1013	General Facts on Livestock Feeding, 8 p.	.10
1014	Poultry Lice and Mites, 8 p.	.10
1015	Internal Parasites of Poultry, 8 p.	.10
1016	Baby Chicks, 8 p.	.10
1017	Culling the Laying Flock, 8 p.	.10
1018	Minerals for Livestock, 8 p.	.10
1019	Judging Livestock, 24 p.	.30
1020	Feeding Dairy Cows, 12 p.	.15
1021	Raising Dairy Calves, 8 p.	.10
1022	Raising Dairy Heifers and Bulls, 8 p.	.10
1023	Classes and Grades of Livestock, 12 p.	.15
1024	Beef Cattle Breeds, 12 p.	.15
1025	The Cow's Udder and How it Functions, 12 p.	.15
1026	Digestion in Animals, 8 p.	.10
1027	Feeding Lambs, 8 p.	.10
1028	Managing the Dry Dairy Cow, 4 p.	.05
1029	The Swine Enterprise, 8 p.	.10
1030	Keeping and Usine Swine Records, 8 p.	.10
1031	The Sheep Enterprise, 4 p.	.05
1032	Castrating, Docking, and Dehorning, 8 p.	.10
1033	Selecting and Purchasing Hogs, 8 p.	.10
1034	Caring for the Swine Herd During Breeding and Gestation, 4p.	.05
1035	Cattle Grubs, 4 p.	.05
1036	Feeds and Feeding Swine, 12 p.	.15
1037	Caring for the Sow and Litter at Farrowing Time, 8 p.	.10
1038	Feed Additives, 8 p.	.10
1039	Systems of Swine Breeding, 8 p.	.10
1040	Selecting, Feeding, and Caring for Light Horses, 16 p.	.20
1041	Caring for the Brood Mare and Foal, 8 p.	.10

Use SUBJECT-MATTER UNIT order form

ANIMAL AND DAIRY SCIENCE MATERIALS (continued)

SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

Use SLIDEFILM order form

Film Number	Title	Price Each
100	Selecting Beef Breeding Animals	$1.70
164-61	Breeds of Swine	1.50
166-64	Selecting Breeding Hogs	1.50
181-65	Identification of Kinds of Meat (color)	2.30
182-65	Identification of Pork Cuts (color)	3.00
*182-65	(Supp.) Practice Set for Identification of Pork Cuts (color)	2.70
183-65	Identification of Beef Cuts (color)	3.15
*183-65	(Supp.) Practice Set for Identification of Beef Cuts (color)	2.85
185-65	Identification of Lamb Cuts (color)	2.45
*185-65	(Supp.) Practice Set for Identification of Lamb Cuts and Variety Cuts (color)	2.55
206-65	Testing Milk for Butterfat	1.15
208	The Cow's Udder and How it Functions	1.15

*Practice sets consist of series of pictures shown in the companion slidefilms for use in practice work in teaching students to identify cuts. They are intended only as supplements to the identification films.

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

Use PROGRAMMED INSTRUCTION MATERIALS order form

Item		Price per Package
101	Selecting and Purchasing Hogs	$ .25
102	Caring for Sheep Breeding Flock	.25
103	Artificial Insemination of Livestock	.25
104	Cattle Grubs	.25
105	Feeds and Feeding Swine, Part 1	.25
106	Feeds and Feeding Swine, Part 2	.25
107	Making the Butterfat Test	.25
108	Caring for the Sow and Litter at Farrowing Time	.25
109	Feed Additives	.25
110	Systems of Swine Breeding	.25

ANIMAL AND DAIRY SCIENCE MATERIALS (continued)

SCRAMBLED BOOKS

Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. Scrambled books are based on VAS units or other subject-matter materials and are normally used only as supplementary teaching material.

Item		Price Each
101	Digestion in Animals	$ .15
102	Improving Animals Through Breeding	.15
103	General Facts on Livestock Feeding	.20
104	Minerals for Livestock	.20
105	Making the Butterfat Test	.15

Use PROGRAMMED INSTRUCTION MATERIALS order form

OTHER MATERIALS

Approved Practices for Swine. This is a 5-page publication which lists specific practices successful swine producers follow. It may be most useful to students in planning and carrying out their supervised farming programs where swine are involved. Price $.05 per copy.

Meat Judging and Grading. This 32-page, $8\frac{1}{2}$" x 11" publication discusses beef, pork, and lamb judging and carcass grading. It describes the retail cuts listed in the National Contest Rules. The score cards used in the national and state contests are shown in the back. Price $.30 per copy.

Judging Milk, Sediment Discs, and Milker Unit Heads. This 8-page, $8\frac{1}{2}$" x 11" publication discusses quality in milk, the steps in judging it, and how to score sediment discs and milker unit heads. Score cards used in the state and national contests are shown in the back. Price $.15 per copy.

Use MISCELLANEOU MATERIALS order form

Visuals. These are $8\frac{1}{2}$" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

Beef Visuals - (Set of 5) Price $.25
Dairy Visuals - (Set of 5) Price $.25
Meat Visuals - (Set of 19) Price $.60
Sheep Visuals - (Set of 7) Price $.30
Swine Visuals - (Set of 11) Price $.40

PRECEDING PAGE BLANK-NOT FILMED

AGRICULTURAL ECONOMICS MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, $8\frac{1}{2}$" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 2001. Units that have been revised have a letter following the number, as 2001a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

Unit Number	Title	Price per Copy
2001a	Planning the Farm Business for Profit, 4 pages	$ .05
2002a	Inventory Your Resources for Farm Planning, 12 p.	.15
2003a	Planning for Sound Land-Use, 12 p.	.15
2004a	Field Arrangement Principles, 8 p.	.10
2005a	Developing the Land-Use Plan and Field Layout, 8 p.	.10
2006a	Choosing Specific Crops to Grow, 12 p.	.15
2007a	Making Estimates of Crop Production and Its Value, 8 p.	.10
2008a	Record Keeping on the Farm, 8 p.	.10
2010a	The Soil Fertility Program--Economic Considerations, Build-Up and Removal, 16 p.	.20
2011	Choosing a System of Farming, 8 p.	.10
2012a	Fitting Livestock to the Farm, 12 p.	.15
2013	Planning for Adequate Size Business, 8 p.	.10
2014a	Choosing the Livestock System, 8 p.	.10
2015	Completing the Soil Fertility Plans, 8 p.	.10
2016	Marketing Farm Products, 8 p.	.10
2017	Mechanics of Land Transfer, 12 p.	.15
2018	Legal Problems of the Farmer, 20 p.	.25
2019	Getting Started in Farming is Hard, 8 p.	.10
2020	The Rural Community and Its Development, 8 p.	.10
2021	What Factors Affect Prices of Farm Products, 12 p.	.15
2022	Taxation and the Farmer, 12 p.	.15
2023	Marketing Dairy Products, 8 p.	.10
2024	Use of Credit to Increase Farm Earnings, 8 p.	.10
2025	Credit Needs on the Farm, 12 p.	.15
2026	Farmer Jones' Plans for Repayment of Loans, 8 p.	.10
2027	Sources of Farm Credit, 12 p.	.15
2028	Factors Involved in the Borrowing Process, 8 p.	.10
2029	Types of Hog Markets in Illinois, 12 p.	.15
2030	Four Common Ways of Doing Business, 8 p.	.10
2031	Integration in the Livestock Industry, 8 p.	.10
2032	How Prices of Meat Animals Are Established, 12 p.	.15
2033	Using Farm Real Estate Loans, 8 p.	.10
2034	Credit Instruments, 12 p.	.15
2035	Balancing the Labor Supply and the Farm Business, 8 p.	.10
2036	Simplifying Farm Work, 16 p.	.20
2037	Setting Up Farm Records to Provide for Analysis, 8 p.	.10
2038	Capitalism, Socialism and Communism, 12 p.	.15
2039	Fitting Machinery and Equipment to the Farm, 20 p.	.25

Use SUBJECT-MATTER UNIT order form

AGRICULTURAL ECONOMICS MATERIALS (continued)

SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

Use SLIDEFILM order form

Film Number	Title	Price Each
330-60	Farm Appraisal	$2.15
340-65	The Illinois Crop-Share Cash Farm Lease	1.40
350	Starting to Keep Records (color)	3.25
351	Keeping Records Up-to-Date (color)	3.35
352	Summarizing and Analyzing Records (color)	3.80
353	Increasing Earnings Through Farm Records (color)	3.35
357	What Records Tell About This Farm (color)	3.50
370-65	Inventory Your Resources	1.20
371-65	Plan the Land-Use Program and Estimate Crop Production	1.05
380	Insurance in the Farm Business (color)	3.00†

†This film available to Illinois Vo-Ag Departments at $.25 postpaid.

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

Use PROGRAMMED INSTRUCTION MATERIALS order form

	Item	Price per Package
201	Summarizing and Analyzing Records	$.25
202	Starting to Keep Records	.25
203	Increasing Earnings Through Farm Records	.25
204	Keeping Records Up to Date	.25
205	How Prices of Meat Animals are Determined	.20
206	Credit Instruments	.25
207	Using Real Estate Loans	.20
208	Choosing the Specific Crops to Grow, Part 1	.25
209	Choosing the Specific Crops to Grow, Part 2	.25
210	Making Estimates of Crop Production and Its Value	.25
211	Record Keeping on the Farm, Part 1	.25
212	Record Keeping on the Farm, Part 2	.25
213	Balancing the Labor Supply and the Farm Business	.25
214	Simplifying Farm Work	.25
215	Setting Up Farm Records to Provide for Analysis	.25
216	Inventory Your Resources for Farm Planning	.25
217	Planning for Sound Land Use	.25
218	Developing the Land-Use Plan and Field Layout	.25
219	The Soil Fertility Program--Economic Considerations, Buildup and Removal	.25
220	Capitalism, Socialism and Communism	.25
221	Field Arrangement Principles	.25
222	Fitting Livestock to the Farm	.25
223	Fitting Machinery and Equipment to the Farm	.25
224	Federal Income Tax (40 questions)	.50

AGRICULTURAL ECONOMICS MATERIALS (continued)

OTHER MATERIALS

Analysis Charts and Tabulation Sheets. The charts are used for comparing students' productive enterprise results with class averages. The tabulation sheets provide a convenient means for computing these averages. Each package contains analysis charts sufficient for 10 students with crop and 10 with livestock enterprises, 5 sample charts filled in for a swine enterprise, and 5 tabulation sheets each for crops and livestock. Price $.35 per package.

Farm Lease Reports

Livestock-Share Tenant's Farm Report to Landlord. This is a pad of 25 blank forms, in duplicate, that can be submitted monthly or for periods longer than a month. Price $1.25 per pad.

Crop-Share Tenant's Farm Report to Landlord. This is a pad of 15 blank forms, in duplicate, considered to be a three-year supply for a crop-share tenant. Price $1.25 per pad.

Farm Management Manual and Related Materials

Farm Management Manual. This 24-page publication provides budgeting information for use in a short-cut procedure for comparing alternate crop and livestock systems in determining which ones are the most profitable. Price $.30 per copy.

Use FARM MANAGEMENT MATERIALS order form

Income Possibilities on Your Farm. This is a form for use by students or adult farmers in comparing alternate crop and livestock systems to determine the best long-time system for a farm. Price $.30 per pack of 10 forms.

The Use of the "Income Possibilities" Form. This is an illustration on how to use the Income Possibilities form. It illustrates how to use it for three different crop and livestock plans for a given farm situation. Price $.60 per pack of 10.

Farm Record Materials

Illinois Farm Record Book, Parts I and II. This is a two-part record book developed by the department of Agricultural Economics for widespread use by Illinois farmers. Part I contains receipts and expenses, inventories, and farm business analysis information. Part II contains depreciation and net worth forms. Parts I and II are sold together. Price $1.25.

Problem for Use with Illinois Farm Record Book. This is a set of transactions for a farm for student use with the Illinois Farm Record Book. After records have been entered and summarized, students can make an analysis of the farm business. Price $.60 for a pack of 10 problems.

Key for Farm Record Problem. This is essentially a reproduction of parts of the Record Book filled in with information from the problem. It also shows results for the analysis measures provided by the Record Book. The key is normally for teacher use although some use keys in quantities for adult classes. Price $.50 per copy.

AGRICULTURAL ECONOMICS MATERIALS (continued)

OTHER MATERIALS (continued)

Financial Planning Materials

Farm and Family Financial Budget Form. This form is also known as a "cash flow budget." It provides space for anticipated cash income and expenses for each month, both for farm business and family living items. Price $.30 per pack of 10 forms.

Farm and Family Financial Planning Problem. This problem provides information on monthly cash receipts and expenses for a 430-acre farm with steers and hogs as the main livestock enterprises. These figures are used for filling out the financial budget form. Price $.15 for pack of 10.

Your Net Worth Statement. This form provides space for recording net worth information for five years. Price $.30 for pack of 10.

Set of Budget Sheets. This 5-page set of budget sheets provides space for completing an annual operating budget -- crop production and crop costs, crop usage and feed requirements, livestock, and inventory-repair-replacement and improvement. Price $.50 for pack of 10.

Mechanics of Farm Budgeting. This is a 28-page manual that explains and illustrates the use of all of the above forms. It also contains a key for the financial planning problem. Price $.30 per copy.

Machine Costs. This 2-page item helps in determining machine charges in connection with crop enterprises in students' farming programs, or in other problems involving machinery costs. The material is mostly based on detailed cost data from Farm-Bureau Farm-Management farms. Price $.15 for pack of 10.

Use FARM MANAGEMENT MATERIALS order form

Partial Budget Materials

Partial Budgets and Break-Even Problems. This 8-page item provides information and practice problems for preparing four partial budgets for adding livestock or machinery to the farm business. The break-even problems help determine the number of acres at which machine ownership is more economical than hiring custom work. A key is included which shows completed budgets and problem results. Price $.80 for pack of 10 problems and 1 key.

Budget Forms, This 4-page set of 4 blank forms is for use in working the problems. They can also be used with VAS 2036, Simplifying Farm Work, or VAS 2039, Fitting Machinery and Equipment to the Farm. Price $.40 for 40 forms (10 sets of 4 forms each).

Planning Your Farm Business. This 28-page booklet provides a method of working out plans for a farm and making income and cost estimates. It can be used separately or in conjunction with VAS units 2001-2007 and 2010-2015. Space is provided for drawing soil maps and providing related information. The book is suitable for students or adult farmers. Price $.30 per copy.

Standards for Measures of Efficiency. This 6-page item is prepared in December each year, based on results obtained by about 6,500 farmers in the Illinois Farm-Bureau Farm-Management Service. Physical measures from previous years are used and dollar values are assigned according to current prices. Teachers can use these standards for comparing students' results or those of adult farmers enrolled in classes on record keeping. Price $.60 per pack of 10.

AGRICULTURAL MECHANICS MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½" x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 3001. Units that have been revised have a letter following the number, as 3003a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

Unit Number	Title	Price per Copy
3001	Using the Oxy-Acetylene Flame in Farm Construction and Repair, 24 pages	$ .30
3002	Farm Metal Work, 24 p.	.30
3003a	Electrical Wiring--Fundamentals and Planning, 24 p.	.30
3004	Arc Welding, 40 p.	.50
3005	Sharpening Hand Tools, 16 p.	.20
3006	Selecting Lumber and Other Building Materials, 12 p.	.15
3007	Making and Using Concrete on the Farm, 16 p.	.20
3008	Farm Tractor Tune-Up, 12 p.	.15
3009	Use of the Square in Farm Construction, 20 p.	.25
3010	Farm Surveying, 16 p.	.20
3011	Lightning and Lightning Protection on the Farm, 12 p.	.15
3012	Electrical Hazards on the Farm, 12 p.	.15
3013	Handling and Using Gasoline and LP-Gas Safely, 8 p.	.10
3014	Small Engines--Principles of Operation, Trouble Shooting and Tune-Up, 16 p.	.20
3015	Spray Painting, 28 p.	.35
3016	Electrical Wiring--Procedures and Exercises, 32 p.	.40
3017	Farm Building Appraisal, 24 p.	.30
3018	Air Compressors, 20 p.	.25
3019	Small Engines--Repair and Overhaul, 20 p.	.25
3020	The Two-Cycle Engine, 20 p.	.25
3021	The Planter - Selection, Adjustment, Maintenance, and Use, 40 p.	.50
3022	Safety in the Agricultural Mechanics Shop, 24 p.	.30
3023	Micrometers and Related Measuring Tools, 8 p.	.10

Use SUBJECT-MATTER UNIT order form

SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

Film Number	Title	Price Each
401-65	Diagramming Electrical Wiring Circuits	$1.30
404-64	Unpacking, Checking, and Identifying Electrical Items	1.45
412	Electric Motors Part 1. Magnetism and the DC Motor	.95
413	Electric Motors Part 2. Induction and the AC Motor	.95
414	Electric Motors Part 3. Testing and Identifying Leads; Connecting and Reversing.	1.00
415	Electric Motors Part 4. Trouble Shooting.	1.35
423	Selection and Application of Galvanized Roofing and Siding	1.25
432	The Use of Welded Wire Fabric on the Farm	1.15

Use SLIDEFILM order form

AGRICULTURAL MECHANICS MATERIALS (continued)

SLIDEFILMS (continued)

Use SLIDEFILM order form

Film Number	Title	Price Each
433	Planning and Preparing for Concrete Masonry Construction	$1.35
434	Laying Concrete Masonry Units	1.25
435	Special Concrete Masonry Problems	1.25
436	Using the Steel Tape in Surveying	.90
437	Recording Field Notes in Surveying	.90
438	Using the Level in Farm Surveying	1.25
439	Using the Level to Stake Out a Building Site	.85
441	Care, Operation, and Adjustment of Mowers	1.35
454	Oxyacetylene - Assembling, Testing, Lighting Blowpipe	1.35
455	Oxyacetylene - Cutting, Bronze Welding	1.15
456	Oxyacetylene - Fusion Welding, Hard Surfacing, etc.	1.40
450-64	Arc Welding - Process, Equipment, and Safety (color)	Set of 3 - 5.00
451-64	Arc Welding - Flat Position Welding (color)	
452-64	Arc Welding - Vertical, Horizontal and Overhead Position Welding (color)	
457	Welding Cast Iron with the Arc Welder	1.15
458	Hardsurfacing Farm Equipment with the Arc Welder	1.00
459	Heating, Brazing, Soldering, and Cutting with Arc Welding Equipment	1.05
460	The Jointer--How to Use It Safely (color)	2.65
461	Drill Press--How to Use It Safely (color)	3.05
462	The Circular Saw--How to Use It Safely (color)	3.35
463	The Power Grinder--How to Use It Safely (color)	3.05
464	The Radial Arm Saw--How to Use It Safely (color)	3.45
465	The Portable Electric Saw--How to Use It Safely (color)	3.35
480	Identification of Pipe and Fittings	1.50
495	Part 1. Building a Woven Wire Fence	1.50
496	Part 2. Special Fencing Problems	1.25
497	The Safe Use and Care of Ladders	1.10
498	Using Power Lawn Mowers Safely (color)	4.00

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

Use PROGRAMMED INSTRUCTION MATERIALS order form

	Item	Price per Package
301	Small Engines, Part 1	$ .25
302	Small Engines, Part 2	.25
303	Farm Surveying, Part 1	.25
304	Farm Surveying, Part 2	.25
305	Electrical Wiring, Part 1	.25
306	Oxyacetylene Welding, Part 1	.25
307	Oxyacetylene Welding, Part 2	.25
308	Farm Building Appraisal	.25
309	Air Compressors, No. 1	.25
310	Air Compressors, No. 2	.25
311	Small Engines - Repair and Overhaul	.25

AGRICULTURAL MECHANICS MATERIALS (continued)

OTHER MATERIALS

Electrical Materials

Applying Electrical Controls in Farm Production. This 16-page publication contains the basic subject-matter material for student use with the electrical controls kit. Principles of various types of manual and automatic control devices are explained and illustrated. Price $.10

Student Exercises. A total of 17 exercises for student use with the electrical controls kit are stapled together. Questions are asked with space provided for answers. Directions and wiring diagrams are given which guide the student in assembling and testing the various exercises. Price $.25.

Electric Motors for Farm Use. This 30-page, 8½" x 11" publication was prepared as a text and laboratory guide to accompany the electric motor kits. Some of the illustrations are in color. It explains the principles of electric motors, their selection, use, maintenance, testing, connecting and reversing. Price $.45.

National Electrical Code, 1965 edition. This 433-page book, published by the National Fire Protection Association, is the standard for safety in electrical wiring. It is a valuable reference for use in teaching the various phases of electricity. Price $1.00.

Field Notes for Surveying. This is a student field book for use in recording student notes in surveying. Price $.15.

Use AGRICULTURAL MECHANICS MATERIALS order form

Plans

Plans for bolt rack, tool cabinet, and revolving device. This is a set of 3 drawings on 11" x 17" paper. They are for use in constructing these three items of shop equipment. Price for set of 3 is $.20.

Welding Plans. This is a set of 39 plans, each on 8½" x 11" paper, stapled together, for welding projects. Most are for items of shop equipment and were submitted by teachers as useful projects for students to make. Price $.40.

Safety Materials

Charts on Safety Rules for Power Tools. These are printed in two colors on 8½" x 11" heavy paper, plastic laminated on both sides, and punched for hanging near the power tool to which they apply. Each chart lists 10 important safety rules for students to observe in using the particular tool. Separate charts are available for each of the following: Arc Welder, Band Saw, Drill Press, Grinder, Jointer, Oxyacetylene Welder, Portable Electric Saw, Radial Arm Saw, and Tilting Arbor Saw. Price $.25 each.

Safety Glasses. Two types of shop safety eye-protection devices are available. The spectacle type is of approved safety glass with side shields. The plastic face mask type is of soft, clear plastic with a replaceable lens. Prices: spectacle type, $3.75; plastic face mask type, $1.50; replacement lens for plastic face mask, $.65.

AGRICULTURAL MECHANICS MATERIALS (continued)

OTHER MATERIALS (continued)

Student Tests on Shop Safety. This is a set of 20 student tests of 10 questions each based on VAS 3022, Safety in the Agricultural Mechanics Shop. Each test deals with a specific machine or tool. There is also a sheet of suggestions to the teacher and a page for the student to sign that he has received instruction in shop safety and that he has passed a written test on each machine that he uses. Price per package of 10 sets (for 10 students), $1.25.

Small Engine Tools These are special small engine repair tools that are difficult to obtain. The complete set contains five tools, as follows:

Magnetic key inserter - for use in removing and replacing valve spring pins or other keepers. Price $2.30.

Piston ring compressor - for use in replacing the piston in a small engine. Price $2.25.

Piston ring expander - for use in removing the rings from a piston and in replacing them. Price $3.00.

Hand valve grinder - for use in lapping valves with grinding compound. Price $3.50.

Valve lifter and spring compressor - for use in removing and replacing valves in a small engine. Price $5.45.

Price of the entire set of tools is the sum of the above figures, or $16.50.

Use AGRICULTURAL MECHANICS MATERIALS order form

Tool Holders. These are gripper type clamps that can be used to hold most small tools in a cabinet or on a tool panel. They are available in two sizes. Prices: small $.07 each; large $.08 each.

Visuals These are $8\frac{1}{2}$" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Supplementary information for use by the teacher as he projects the drawing are contained on the back of each visual. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

Small Engine Visuals	- (Set of 98)	Price $2.65
Oxyacetylene Welding Visuals	- (Set of 73)	Price $2.00
Spray Painting Visuals	- (Set of 50)	Price $1.35

CROP AND SOIL SCIENCE MATERIALS

SUBJECT-MATTER UNITS

Subject-matter units are prepared for student text and reference material. They are printed, 8½"x 11", illustrated, and punched for standard 3-ring notebook. Each unit carries a VAS number, as 4001. Units that have been revised have a letter following the number, as 4002a. Date of issue or revision is coded in letters on the last page. E-FG, for example, is 5-67 (May 1967).

Unit Number	Title	Price per Copy
4001	Collecting and Preparing Soil Samples for Testing, 4 pages	$ .05
4002a	pH Test for Soil Acidity, 8 p.	.10
4003a	P_1 and P_2 Soil Tests for Phosphorus, 8 p.	.10
4004a	Testing Soils for Potassium, 12 p.	.15
4005	Nature of Soil Acidity and Major Plant Nutrients, 4 p.	.05
4006a	Soil Liming--A Key to Better Farming, 8 p.	.10
4007	Using Phosphorus Fertilizers, 4 p.	.05
4008a	Recommended Potassium Fertilizers, 8 p.	.10
4009	Using Nitrogen Fertilizers, 8 p.	.10
4010a	Planning a Fertilizer Program, 8 p.	.10
4011	Hunger Signs--A Guide to Soil Improvement, 10 p.	.15
4012	Maintaining Organic Matter in the Soil, 8 p.	.10
4013	Animal Manures on the Farm, 8 p.	.10
4014	Improving Permanent Pastures, 8 p.	.10
4015	Growing Red Clover, 12 p.	.15
4016	Growing Ladino Clover, 8 p.	.10
4017	Growing Sweet Clover, 12 p.	.15
4018	Farmstead Windbreaks, 8 p.	.10
4019	Seed Treatments, 4 p.	.05
4020	Plants Poisonous to Livestock, 16 p.	.20
4021	Grass Waterways, 8 p.	.10
4022	Inoculation of Legumes, 4 p.	.05
4023a	Producing Oats, 12 p.	.15
4024	Planting and Care of Farm Forests, 16 p.	.20
4025	Controlling Diseases of Vegetable Crops, 12 p.	.15
4026	Growing Barley, 8 p.	.10
4027	Growing Winter Wheat, 16 p.	.20
4028	Soil Structure, 8 p.	.10
4029	Soil Color, 8 p.	.10
4030	Soil Texture, 8 p.	.10
4031	Treating Fence Posts, 8 p.	.10
4032a	Producing High Alfalfa Yields, 20 p.	.25
4033	Growing Soybeans, 8 p.	.10
4034	Controlling Pests of Home Fruits, 4 p.	.05
4035	Selecting and Preparing Soybeans for Seeding, 8 p.	.10
4036	Contouring, 8 p.	.10
4037	Controlling Giant Foxtail, 4 p.	.05
4038	Terracing, 16 p.	.20
4039a	Producing High Corn Yields, 12 p.	.15
4040	Corn Insects, 12 p.	.15

Use SUBJECT-MATTER UNIT order form

CROP AND SOIL SCIENCE MATERIALS (continued)

SUBJECT-MATTER UNITS (continued)

Use SUBJECT-MATTER UNIT order form

Unit Number	Title	Price per Copy
4041	Minimum Tillage, 8 p.	$ .10
4042	Controlling Weeds, 12 p.	.15
4043	Pruning Fruit Trees, 8 p.	.10
4044	Storing and Drying Corn, 12 p.	.15
4045	Handling and Using Agricultural Chemicals, 12 p.	.15
4046	Growing and Selling Christmas Trees, 12 p.	.15
4047	Controlling Insects of Vegetable Crops, 20 p.	.25
4048	Pruning and Training Bramble Fruits and Highbush Blueberries, 8 p.	.10
4049	Maize Dwarf Mosaic of Corn, 8 p.	.10

SLIDEFILMS

Slidefilms are 35 mm. single-frame, for use with a standard filmstrip projector. No separate syllabus is required as all of the text is included on the frames. Those that are in color are so marked on the list below. Unmarked slidefilms are in black and white. Slidefilms are available on a sale basis only.

Use SLIDEFILM order form

Film Number	Title	Price Each
501	The Farmstead Windbreak	$1.95
504	Identifying Coniferous Trees (color)	3.40
703-64	Collecting and Preparing Soil Samples for Testing	.95
704-63	Using the pH Meter in Testing Soils for Acidity	1.10
708	Soil Color (color)	3.00
**T710	Soil Moisture	.70
712	Soil Structure	1.45
713	Soil Texture	1.70
731	Planting Corn	1.25
732	Corn Diseases in Illinois (color)	3.05
790	Preparing and Using Soil Monoliths	1.40
791	Identification of Weeds, Part I (color)	2.80
792	Identification of Weeds, Part II (color)	2.35
794	Controlling Giant Foxtail (color)	2.70
795	Control of Aquatic Weeds (color)	2.90
796	Seed Quality--A Major Factor in Crop Yields (color)	2.75
797	Using Pre-emergence Herbicides (color)	2.95

**T - For use with tape recording of same title, $3.50.

CROP AND SOIL SCIENCE MATERIALS (continued)

PROGRAMMED INSTRUCTION SERIES

These are sets of multiple-choice questions based, for the most part, on VAS units or other subject-matter materials. They are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way. Each set is in a package of 20 identical copies, all on the same subject.

	Item	Price per Package
401	Storing and Drying Corn	$ .25
402	Corn Insects	.25
403a	Understanding Soils, Part 1	.25
404	Understanding Soils, Part 2	.25
405	Recommended Potassium Fertilizers	.25
406	Handling and Using Agricultural Chemicals	.25
407	Growing and Selling Christmas Trees	.25
408	Producing Oats	.25
409	Controlling Insects of Vegetable Crops	.25
410	Planning a Fertilizer Program	.25
411	Pruning and Training Brambles	.25
412	Maize Dwarf Mosaic of Corn.	.25

Use PROGRAMMED INSTRUCTION MATERIALS order form

SCRAMBLED BOOKS

Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. Scrambled books are based on VAS units or other subject-matter materials and are normally used only as supplementary teaching material.

	Item	Price Each
401	Corn Production--As a Part of Your Farming Program.	$.20
402	Producing Oats	.15

OTHER MATERIALS

Approved Practices These are 4-page publications which list specific practices followed by successful crop producers. They are useful to students in planning and carrying out their supervised farming programs involving crops. They are available for the following crops:

Approved Practices for Alfalfa - Price $.05 per copy
Approved Practices for Corn - Price $.05 per copy
Approved Practices for Oats - Price $.05 per copy
Approved Practices for Soybeans - Price $.05 per copy
Approved Practices for Wheat - Price $.05 per copy

Use CROPS, SOILS & FERTILIZER MATERIALS order form

CROP AND SOIL SCIENCE MATERIALS (continued)

OTHER MATERIALS (continued)

Demonstrations on Weed Control This is a series of demonstrations for student use to show the effect of herbicides on weed control. All except Number 4 contain the essential items needed to set up the demonstration. Each one provides full directions for carrying out the demonstration and observing the results. They are as follows:

1. The Effect of Pre-Emergence Herbicide on Weed Growth - Price $.25 ea.
2. The Effect of Post-Emergence Herbicide on Weed Growth- Price $.25 ea.
3. The Effect of 2-4D on Broad Leaved Plants in Lawns - Price $.25 ea.
4. Checking and Calibrating Farm Sprayers - Price $.05 ea.

Land-Use Selection Cards. These are $5\frac{1}{2}$" x 8" cards, printed on both sides, for use in Land-Use Selection contests. The information on them is based on Ill. Circular 758, "Understanding Soils." Land-use selection cards are available in packages of 25 cards (five boys on a team to judge five holes). Price $.30 per package.

Munsell Color Book. This set of standard color charts in a soft, black loose-leaf binder is used to determine soil colors. It is available in two forms:

Kit Form. This includes the color charts, color chips to be glued on, and the notebook cover. Price $5.25 each.

Assembled Book. This Munsell Color Book is completely assembled, ready to use. Price $6.95 each.

pH Kit. The complete kit includes $\frac{1}{4}$ pound of pH powder, plastic wash bottle, instruction sheet, color chart, 1-gram measuring spoon, 2 vial racks containing 24 vials, and a metal carrying case. It can be used for making indicator pH tests of soils in the laboratory or in the field when soil is not too wet to plow. Price $8.00 each.

Use CROPS, SOILS & FERTILIZER MATERIALS order form

Replacement pH Powder. In $\frac{1}{4}$ pound lots, sufficient to make about 100 tests. Price $2.50 per $\frac{1}{4}$ pound.

Soil-Testing Spoons. These are copper spoons, double end, 1 and $2\frac{1}{2}$ grams. Price $.65 each.

Soil-Test Report Forms. This is a set of 6 forms for use in testing soil, recording results, and interpreting soil tests. The set includes one each of the following: Soil Test Form A; Soil Test Form B; D-1 Soil Test Report; D-2 Using the Results of Your Soil Acidity Test for Lime; D-3 Phosphorus--Maps and Interpretations; D-4 Potassium--Maps and Interpretations. Price $.10 per set of 6 forms.

Subject-Matter Packet -- Corn Production. This is a collection of more than 30 publications on Corn Production, assembled in a manila pocket folder. This material may be handed out as it is discussed, and should make an extensive library on corn for a student or adult farmer. A teacher's guide is included with each order. Price $2.50 per packet.

Visuals These are $8\frac{1}{2}$" x 11" instructional illustrations printed on heavy paper. They are for making transparencies for overhead projection, for use with an opaque projector, or for direct viewing. Supplementary information for use by the teacher as he projects the drawing are contained on the back of each visual. Each set is contained in a manila pocket folder with the title of the series stamped on the flap. Available sets are:

Weed Control Visuals - (Set of 36) Price $1.00
Weed Identification Visuals - (Set of 33) Price $.95

MISCELLANEOUS MATERIALS

Calendar of Events. This is a set of 8½" x 11" monthly calendars, printed on heavy paper, punched for easy hanging. Space is provided at each date for recording events. There is a sheet for each month, September through August. Price $.20 per set.

Careers

Tape Recordings on Careers in Agriculture. These are 1200 ft. tapes for a standard tape recorder. The subjects and other information about each are as follows:

Careers in Agriculture, 25 minutes, 7½ ips.
Choosing a Career in Agronomy, 25 minutes, 7½ ips.
Choosing a Career in Ornamental Horticulture, 25 minutes, 7½ ips.
Junior College Programs in Agriculture in Illinois, 35 minutes, 3 3/4 ips.

The price of each tape is $4.50 on a new tape; or $2.00 if you send in your own tape for dubbing.

Use MISCELLANEOUS MATERIALS order form

Programmed Instruction Series. This is a set of multiple-choice questions on the importance of agriculture and careers in this field. The questions are designed for use with the Rapid Rater (see Miscellaneous Materials), although they may be used by marking in a conventional way.

No. 501 Let's Look at Agriculture - Price $.25 per package of 20 copies.

Use PROGRAMMED INSTRUCTION MATERIALS order form

Cumulative Record Books for Foundation Awards

These record books were developed by the Illinois Foundation FFA for members to use in their improvement project programs. Completed books are submitted as official entries in the Foundation Award Fields listed below:

Agricultural Electrification	- Price $.12 per copy
Agricultural Mechanics	- Price $.12 per copy
Beautification	- Price $.12 per copy
Safety	- Price $.12 per copy
Soil and Water Management	- Price $.12 per copy

Flannel Board Materials

Flocked Paper. This is a high-quality material that can be cut and attached to items you wish to use on a flannel board. It has a pressure-sensitive side for attaching to the display item and a rough texture that clings well to flannel. It is available in lots of two sheets, each 15" x 20". Price $1.70.

Suede Paper. This is an economical material for making flannel board items. One side of the paper is rough and will adhere to the flannel surface. The other side is white and will accept ink, chalk, gummed letters or felt pen. It is available in 27" width and any length desired. Price $.30 per yard.

Use MISCELLANEOUS MATERIALS order form

Judging Materials

Illinois Scoring System Cards. This set of three 7" x 10" cards may be used to score any 4-place judging ring. The bottom card gives scores, divided into columns according to spacing between pairs. The top cards are "window" or "cut-out" cards, divided into columns according to placings, one card by numbers 1-2-3-4, and the other by letters A-B-C-D. To use the system, you match the top card and bottom card together according to correct placing and official spacing between pairs, and read off the scores directly on a basis of 100 points possible. Price $.20 per set.

Use JUDGING CARDS & MATERIALS order form

MISCELLANEOUS MATERIALS (continued)

Use JUDGING CARDS & MATERIALS order form

Hormel Computing Slide. The 4" x 6" plastic holder and nine inserts may be used for scoring any 4-place judging ring. By selecting the proper insert cards and assembling them correctly, the scores of all possible placings show through. This computing slide differs from most other systems by considering the closeness of the whole ring as well as placing and spacing between pairs. Scores are on a basis of 50 points possible. Price $2.75 ea.

Judging Cards and Supplies. Placing, grading, and identification IBM cards are available for judging contests, classroom or practice work in 7 colors -- salmon, green, yellow, pink, blue, manila, and brown. Registration forms, scoring cards, judges placing cards, summary sheets, are furnished without charge with a judging contest card order. Price of cards is $3.00 per 1,000.

Parliamentary Practice Materials

Use MISCELLANEOUS MATERIALS order form

Guide to Parliamentary Practices. This is a 58-page, $5\frac{1}{2}$" x $8\frac{1}{2}$" publication which is essentially a condensed version of Robert's Rules of Order. It was prepared to assist FFA officers and as basic text material in preparing parliamentary procedure contest teams. Price $.30 per copy.

Beginning Steps in Parliamentary Procedure. This 13-page multilith is supplementary to "A Guide to Parliamentary Practices." It is essentially an outline of "steps up the ladder" for each main type of parliamentary action, with blanks for students to fill and questions to answer. A key to the correct answers is given on the last page. Price $.10 per copy.

Scrambled Books on Parliamentary Procedure. Scrambled books are programmed like a teaching machine. The student reads some information, reacts to a statement, and is directed to a certain page if he considers the statement true or to another page if he thinks the statement false. If his choice is correct, he is directed on; if incorrect, he is sent back. These scrambled books are based on "A Guide to Parliamentary Practices."

Use PROGRAMMED INSTRUCTION MATERIALS order form

No. 501	Parliamentary Procedure--Presenting and Voting Motions	- Price $.15 ea.
No. 502	Subsidiary Motions	- Price $.20 ea.
No. 503	Incidental Motions	- Price $.15 ea.
No. 504	Privileged and Unclassified Motions	- Price $.15 ea.

Rapid Rater. This is a punch-board device for use with the Programmed Instruction Series questions or any set of multiple choice questions with not more than 4 choices. The device can be used with up to 80 questions, coded to 8 different orders of correct answers. The student knows when he has answered each question correctly and a paper insert records the number of wrong efforts he makes in arriving at the correct answer. . Price $4.00 each.

Insert sheets for Rapid Rater. These are available in packages of 25, cut to correct size with space to identify student name and subject. Price $.06 per package.

Replacement templates for Rapid Rater. These are not needed until original templates are lost or damaged. Complete set is a pair -- Coded 1-4, and 5-8. Price $.35 each or $.70 per pair.

Use MISCELLANEOUS MATERIALS order form

Pressboard Covers. These are 9" x $11\frac{1}{2}$" binders for use with $8\frac{1}{2}$" x 11" punched materials. Each binder has a metal fastener and a blank label. Price $.30 each.

Slidefilm Containers. These are the green plastic cans with removable cover in which new slidefilms are delivered. They can be used as replacements or to store 35 mm. negatives, etc. Price $.05 each.

Sets of order forms are available on request from

VOCATIONAL AGRICULTURE SERVICE
434 Mumford Hall
Urbana, Illinois 61801